ADDITIONAL

Service Manual

PIONEER®

STEREO TURNTABLE

PL-L1000A HET HBT

- **The basic performance of the PL-L1000A/HET,HBT types is the same as the PL-L1000A/S/G type. Please refer to the PL-L1000A/S/G type service manual with the exception of this supplements.**

1. SPECIFICATIONS

Motor and Turntable

Drive System ..... Direct-drive
Motor ..... Ouartz PLL Hall motor
Turntable Platter .. 310mm diam. aluminum alloy die-cast
Inertial Mass .... 330kg-cm^2 (including platter mat mass)
Speeds ..... 33-1/3 and 45rpm
Wow and Flutter ..... Less than *0.012% (WRMS)
0.023% (WRMS)
0.035% (DIN)

Values marked with an "*" designate the wow and flutter for motor, and do not include the cartridge or tonearm load.

Signal-to-Noise Ratio ..... More than 78dB (DIN-B)
(with Pioneer cartridge model PC-4MC)

Rotational Characteristics

Build-up Time ..... within 180° rotation at 33-1/3rpm
Speed Deviation ..... Less than 0.002%
Speed vs. Load Characteristics .... Stable up to 200 grams drag load
Speed Drift ..... Less than 0.00008%/h at 33-1/3rpm
Less than 0.00003%/degree temp. change at 33-1/3rpm

Tonearm

Type ..... Linear Motor Direct-drive
Static-balance type, Linear-tracking arm
Effective Arm Length 190mm
Overhang 0mm
Usable Catridge Weight
(including headshell weight) .... 6g (min.) to 32g (max.)
Arm Height Adjust Range ..... ±3mm
Headshell weight 10.5g

Subfunctions

Auto lead-in
Auto-return
Auto cut
Quick repeat
Quick play
Quick stop
Stylus pressure direct-readout counterweight
Arm height adjusting device
Cueing device
Free stop hinges

Miscellaneous

Power Requirements ..... AC220/240V ~ (switchable) 50, 60Hz
Power Consumption 35W
Dimensions ..... 494(W) x 154(H) x 456(D)mm
19-7/16(W) x 6-1/16(H) x 17-15/16(D) in.
Weight ..... 13.5 kg/29 lb 13 oz
Accessories
EP Adapter 1
Screwdriver 1
Sub-weight 1
Overhang gauge 1
Level 1
Cleaning cloth 1
Operating instructions 1

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.

2. CONTRAST OF MISCELLANEOUS PARTS

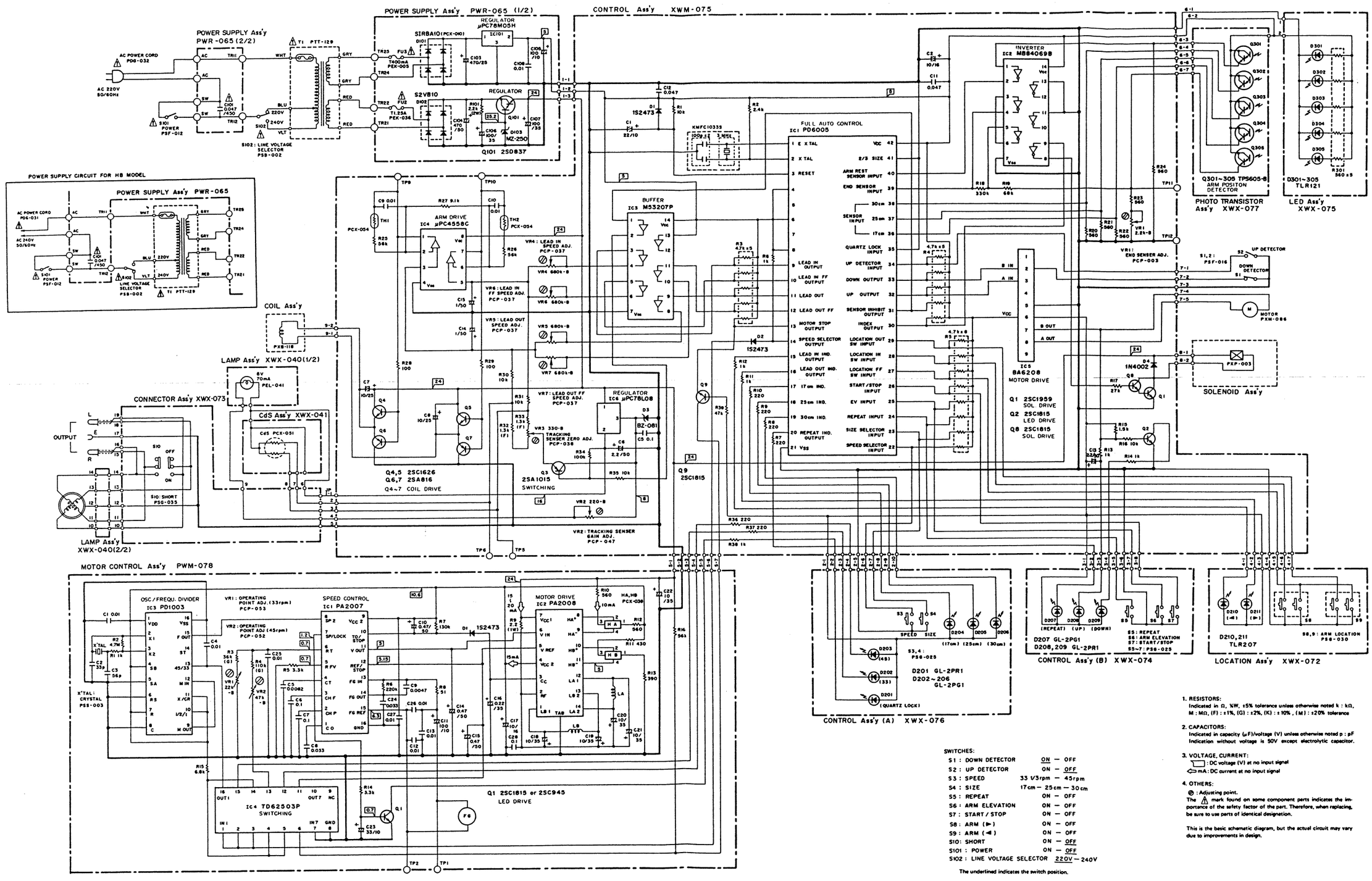
NOTES:

- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *For your Parts Stock Control, the fast moving items are indicated with the marks ★★ and ★ .*
  ★★ GENERALLY MOVES FASTER THAN ★
  This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

Mark	Symbol & Description	Part No.			Remarks
		S/G	HET	HBT	
⚠ ★★	Microswitch	PSF-008	PSF-012	PSF-012	
	Cartridge assembly	PPB-935	....	....	
⚠ ★	Power transformer (220V,240V)	....	PTT-129	PTT-129	
⚠ ★	Power transformer (110V,120V,220V,240V)	PTT-135	....	....	
⚠	Power cord	PDG-035	PDG-032	PEC-031	
⚠	Power supply assembly	PWR-067	PWR-065	PDG-065	
	Strain releif (Power cord)	E32-056	PEC-501	PWR-051	
⚠ ★★	Line voltage selector	PSB-007	PSB-002	PEC-002	
	Packing case	PHG-469	PHG-437	PSB-437	
	Operating instructions	PRB-187	PRD-062	PNV-187	
	Cartridge mounting screw (W)	PBA-909	....	....	
	Insulator spacer	....	PEC-052	PEC-052	
	Dust cover	PNV-042	PNV-041	PNV-041	
	Protector	....	PHN-008	PHN-008	
	Protector	....	PHN-009	PHN-009	

3. SCHEMATIC DIAGRAM

NOTE:
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.



SWITCHES:

S1 : DOWN DETECTOR	ON — OFF
S2 : UP DETECTOR	ON — OFF
S3 : SPEED	33 V3rpm — 45rpm
S4 : SIZE	17cm — 25cm — 30cm
S5 : REPEAT	ON — OFF
S6 : ARM ELEVATION	ON — OFF
S7 : START / STOP	ON — OFF
S8 : ARM (▶)	ON — OFF
S9 : ARM (◀)	ON — OFF
S10 : SHORT	ON — OFF
S101 : POWER	ON — OFF
S102 : LINE VOLTAGE SELECTOR	220V — 240V

The underlined indicates the switch position.

1. RESISTORS:
Indicated in Ω, ¼W, ±5% tolerance unless otherwise noted k : kΩ, M : MΩ, (F) : ±1%, (G) : ±2%, (K) : ±10%, (M) : ±20% tolerance

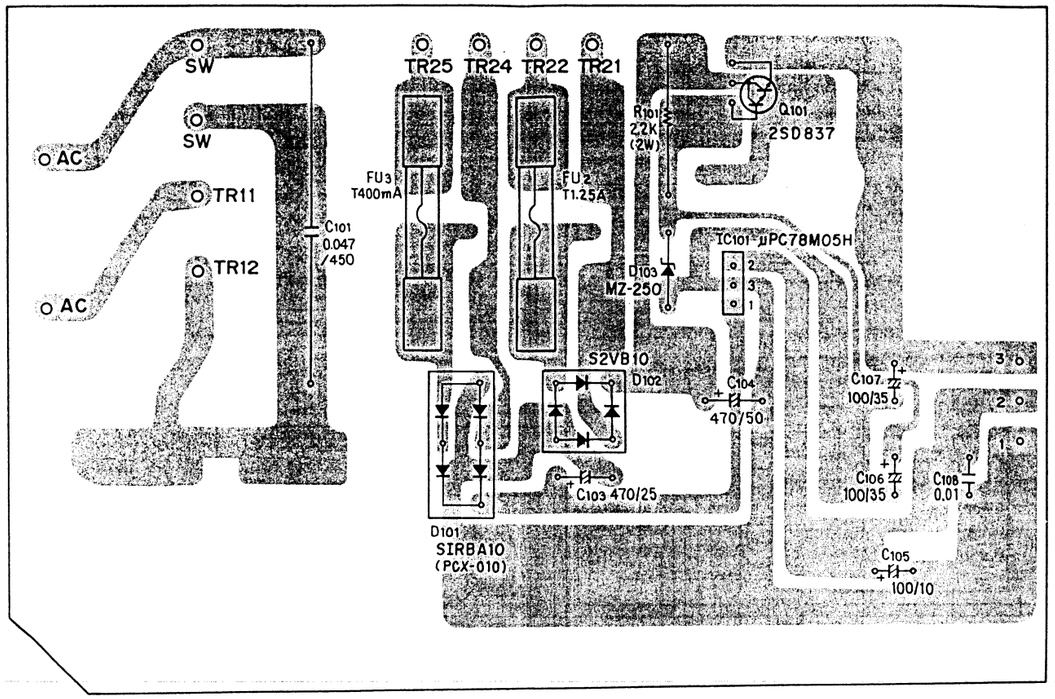
2. CAPACITORS:
Indicated in capacity (μF)/voltage (V) unless otherwise noted p : pF
Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE, CURRENT:
▭ : DC voltage (V) at no input signal
⇦mA : DC current at no input signal

4. OTHERS:
⊘ : Adjusting point.
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

4. POWER SUPPLY ASSEMBLY(PWR-065)



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Parts List

Power Supply Assembly (PWR-065)

CAPACITORS

Mark	Part No.	Symbol & Description
⚠	PCL-024	C101
	CEA 471M 25L	C103
	CEA 471M 50L	C104
	CEA 101M 10L	C105
	CEA 101M 35L	C106,C109
	CKDYF 103Z 50	C108

FUSES

Mark	Part No.	Symbol & Description
⚠ ★★	PEK-005	FU2 T400mA
⚠ ★★	PEK-036	FU3 T1.25A

RESISTOR AND SEMICONDUCTORS

Mark	Part No.	Symbol & Description	
	RS2PF222J	R101	
★★	μPC78M05H	IC101	
★★	2SD837	Q101	
★	PCX-010	D101	Bridge stack
★	S2VB10	D102	Bridge stack
★	MZ-250 (WZ-250)	D103	

OTHERS

Mark	Part No.	Symbol & Description
	PDE-106	Connector assembly
	PNM-013	Spacer
	PNX-015	Spacer
	PBA-089	Screw
	PAZ30P060FMC	Screw